PTO/SB/08A(04-07)
Modified form approved for use through 09/30/2007. OMB 651-0031

US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO	Complete if Known		
Substitute for form 1449AFTO	Application Number	10/597,803	
INFORMATION DISCLOSURE	Filing Date	April 13, 2007	
STATEMENT BY APPLICANT	First Named Inventor	Robert Tridgett	
(Use as many sheets as necessary)	Group Art Unit	1614	
	Examiner Name	Craig Ricci	
eet 1 of 5	Attorney Docket No: 3	3063.002US1	

	US PATENT DOCUMENTS				
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate	
	US-2,830,993	04/15/1958	Brossi, Arnold, et al.	05/18/1956	
	US-2,843,591	07/15/1958	Brossi, Arnold, et al.	02/04/1957	
	US-2,954,382	09/27/1960	Osbond, John Marvyn	07/28/1958	
-	US-3,009,918	11/21/1961	Openshaw, Harry Tacon, et al.	01/19/1959	
	US-3,045,021	07/17/1962	Brossi, Arnold Riehen	09/13/1960	
	US-3,053,845	09/11/1962	Tretter, James R	08/29/1961	
	US-3,079,395	02/26/1963	Brossi, Arnold, et al.	03/26/1958	
	US-3,095,419	06/25/1963	Tretter, James R	09/06/1961	
	US-3,105,079	09/24/1963	Tretter, James R	12/29/1961	
•	US-3,123,609	03/03/1964	Openshaw, Harry Tacon, et al.	11/22/1960	
	US-3,132,147	05/05/1964	Schopf, Clemens, et al.	06/15/1962	
	US-3,159,638	12/01/1964	Ritchie, Alexander Crawford, et al.	08/20/1962	
	US-3,209,005	09/28/1964	Brossi, Arnold, et al.	06/06/1963	
	US-3,314,966	04/18/1967	Brossi, Arnold, et al.	04/06/1964	
	US-3,342,825	09/19/1967	Openshaw, Harry Tacon, et al.	11/22/1960	
	US-3,375,254	03/26/1968	Openshaw, Harry Tacon, et al.	09/17/1965	
	US-3,390,152	06/25/1968	Harnden, Michael Raymond	10/21/1965	
	US-3,634,431	01/11/1972	Van Dyke, John William	07/03/1967	
	US-3,635,986	01/18/1972	Van Dyke, John William	12/22/1969	
	US-4,076,820	02/28/1978	Archibald, John Leheup, et al.	05/13/1976	
	US-4,102,886	07/25/1978	Szantay, Csaba, et al.	10/21/1975	
	US-4,133,812	01/09/1979	Szantay, Csaba, et al.	04/25/1977	
	US-4,304,913	12/08/1981	Havera, Herbert J, et al.	10/02/1980	
	US-6,087,376	07/11/2000	Crooks, Peter A, et al.	06/03/1998	

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Т1
	WO-2005077946A1	08/25/2005	Clarke, lan, et al.	

	OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ'
	"European Application Serial No. 05708289.3, Response filed 09-17-07", 8 pgs	
	"International Application Serial No. PCT/GB2005/000464, International Search Report mailed 06-10-05", 4 pgs	
	"International Application Serial No. PCT/GB2005/000464, Preliminary Report on Patentability mailed 08-14-06", 9 pgs	

EXAMINER	/Craig Ricci/	DATE CONSIDERED	10/21/2009
	/ Witches 1100#		

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant is to place a check mark here if English language Translation is attached

Modified form approved for use through 09/30/2007. OMB 651-0031
US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE collection of information unless it contains a valid OMB control number.

US Patent & Trademark Office; U.S. DEPARTMENT OF COMMERCE under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Cubatituda fa a farma 11400 IDTO	Complete if Known		
Substitute for form 1449A/PTO	Application Number	10/597,803	
INFORMATION DISCLOSURE	Filing Date	April 13, 2007	
STATEMENT BY APPLICANT	First Named Inventor	Robert Tridgett	
(Use as many sheets as necessary)	Group Art Unit	1614	
	Examiner Name	Craig Ricci	
Sheet 2 of 5	Attorney Docket No: 3	3063.002US1	

	OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-Issue number(s), publisher, city and/or country where published.	T
	"International Application Serial No. PCT/GB2005/000464, Written Opinion mailed 06-10-05", 8 pgs	
-	ALBIN, et al., "Increased Ventral Striatal Monoaminergic Innervation in Tourette	
	Syndrome", Neurology 61, (2003), 310-315	
	BOHNEN, et al., "Decreased Striatal Monoaminergic Terminals in Huntington Disease", Neurology 54, (2000), 1753-1759	
	BORGHT, THIERRY VANDER, et al., "In Vivo Imaging of the Brain Vesicular Monoamine Transporter", The Journal of Nuclear Medicine, vol 36, No 12, (1995), 2252-2260	
	BORGHT, VANDER, et al., "[3H]Methoxytetrabenazine: A High Specific Activity Ligand for	
Not in English	Estimating MonoaminergicNeuronal Intergrity", Neuroscience Vol. 68, No. 3, (1995), 955-962	
3	BROSSI, et al. "Synthese und absolute Konfiguration von (-)-2 Debydroemetin"	
000000000000000000000000000000000000000	Experentia; (1962); 214-212	000000000000000000000000000000000000000
	BROSSI, et al., "Syntheseversuche in der Emetin-Reihe 2. Mitteilung. Neue Reaktionen mit	
000000000000000000000000000000000000000	3,4-ditrydro-isocrimoiment, <u>Chimia 12,</u> (1958), 114-115	000000000000000000000000000000000000000
	BROSSI, et al., "Syntheseversuche in der Emetin Reihe 3. Mitteilung: 2 Hydroxy	***************************************
***************************************	hydrobenzo[a]chinolizine", Helvetica Chimica Acta volume XLI, Number 103, (1958), 1703	
	1806	
000000000000000000000000000000000000000	BROSSI, et al., "Cyntheseversuche in der Emetin Reihe 4. Mitteilung: Recomisches 2	000000000000000000000000000000000000000
	Dehydro-emetin", Helvetica-Chimica Asta Vel 12, (1059), 772-788	000000000000000000000000000000000000000
000000000000000000000000000000000000000	BROSSI, et al., "Syntheseversuche in der Emetin Reihe 7. Mitteilung: Abbau und Synthese	000000000000000000000000000000000000000
***************************************	substituterter 2-Oxo-hydrobenzo[a]chimolizine*, <u>Helvetica Chimica Acta, volume XLIII, No</u>	000000000000000000000000000000000000000
000000000000000000000000000000000000000	<u>77</u> , (1000), 582-503	
	BROSSI, et al. "Syntheseversuche in der Emetinreihe 9. Mitteilung: Die Absolute	000000000000000000000000000000000000000
***************************************	Konfiguration von () 2 Behydro emetin", Holvetica Chimica Acts, volume XLV No 257,	
000000000000000000000000000000000000000	 (1902), 2219-2228 	
·	BROSSI, et al., "Synthetic Experiments in the Emetine Series", Helv. Chim. Acta. vol. XLI, No. 193, (1958), 119-139	
000000000000000000000000000000000000000	BRUDERER of al. "Synthesen in der Emetin Roihe 11 Mitteliung: 2 Anzisubstituierte	000000000000000000000000000000000000000
	Hydrohenzofalchinolizine" Helvetica Chimica Acta, volume 47 No. 203, (1964), 1852-1860.	
	CANNEY, et al., "Amino- and Amido-Tetrabenazine Derivatives: Synthesis and Evaluation	
	as Potential Ligands for the Vesicular Monoamine Transporter", Nucl. Med. Biol. 22, (1995), 527-535	
	DASILVA, et al., "Characterization of [11C]Tetrabenazine as an In Vivo Radioligand for the	
	Vesicular Monoamine Transporter", Nucl. Med. Biol vol 21, No 2, (1994), 151-156	
	DASILVA, et al., "In Vivo Binding of [11C]Tetrabenazine to Vesicular Monoamine	
<u> </u>	Transporters in Mouse Brain", Life Sciences Vol 51, (1992), 593-600	
	DASILVA, et al., "In Vivo Imagine of Monoaminergic Nerve Terminals in Mormal and	
	MPTP-Lesioned Primate Brain Using Positron Emission Tomography (PET) and	
	[11C]Tetrabenazine", Synapse 14, (1993), 128-131	

EXAMINER	/Craig Ricci/	DATE CONSIDERED	10/21/2009

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. 1 Applicant is to place a check mark here if English language Translation is attached

PTO/SB/08A(04-07)
Modified form approved for use through 09/30/2007. OMB 651-0031
US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1440A/DTO	Complete if Known		
Substitute for form 1449A/PTO	Application Number	10/597,803	
INFORMATION DISCLOSURE	Filing Date	April 13, 2007	
STATEMENT BY APPLICANT	First Named Inventor	Robert Tridgett	
(Use as many sheets as necessary)	Group Art Unit	1614	
	Examiner Name	Craig Ricci	
Sheet 3 of 5	Attorney Docket No: 3063.002US1		

	Examiner	OTHER DOCUMENTS — NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book,	T
	initials*	magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	'
		DASILVA, et al., "Synthesis of a [11C]Methoxy Derivative of a-Dihydrotetrabenazine: A	
	-	Radioligand for Studying Vesicular Monoamine Transporter", Appl. Radiate Isot. Vol 44 No.	
	1	<u>12,</u> (1993), 1487-1489	
		DE SILVA, JEAN, et al., "Synthesis of [11C]Tetrabenazine, a Vesicular Monoamine Uptake	
		Inhibitor, for PET Imaging Studies", Appl. Radiat. Isot. vol 44: No 4, (1993), 673-676	
		FLACK, et al., "Reporting and evaluating absolute-structure and absolute-configuration	
		determinations", Journal of Applied Crystallography 33, (2000), 1143-1148	
		FREY, et al., "Imagine of Monoaminergic and Cholinergic Vesicular Transporters in the	
	-	Brain", Advances in Pharmacology Vol. 42, (1998), 269-272	
		FREY, et al., "Presynaptic Monoaminergic Vesicles in Parkinsons Disease and Normal	
ot in E	nglish	Aging", Ann. Neurol. 40, (1996), 873-884	
000000000000000000000000		GERECKE M. et al. "Syntheseversuche in der Emetin-Reihe 10. Mitteilung: Zur Oxydation.	00000000
000000000000000000000000000000000000000		von 2-Behydro-emetin-Verbindungen mit Quecksilber(II) acetat", Helvetica Chimica Acta,	000000000
000000000000000000000000000000000000000		voicine 47 No. 121, (1904), 1117 1120	00000000
		GILMAN, et al., "Decreased Striatal Monoaminergic Terminals in Olivopontocerebellar	
		Atrophy and Multiple System Atrophy Demonstrated with Positron Emission Tomography",	
		Ann. Neurol 40, (1996), 885-892	
		JEWETT, et al., "A Simple Synthesis of [11C]Dihydrotetrabenazine (DTBZ)", Nuclear	
		Medicine and Biology, volume 24, (1997), 197-199	
		KILBOURN, et al., "Differential Effects of Scopolamine on in Vivo Binding of Dopamine	T
		Transporter and Vesicular Monoamine Transporter Radioligands in Rat Brain",	
		Experimental Nuerology 188, (2004), 387-390	
		KILBOURN, et al., "Effects of Dopaminergic Drug Treatments on In Vivo Radioligand	
		Binding to Brain Vesicular Monoamine Transporters", Nuclear Medicine and Biology Vol	
		<u>23</u> , (1996), 467-471	
		KILBOURN, et al., "In Vitro and In Vivo Studies of Benzisoguinoline Ligands for the Brain	1
		Synaptic Vesicle Monoamine Transporter", <u>J. Med. Chem. 39</u> , (1996), 191-196	
		KILBOURN, et al., "In Vivo Imagine of Vesicular Monoamine Transporters in Human Brain	
		Using [11C]Tetrabenazine and Positron Emission Tomography", Journal of	
		Neurochemistry, vol 60, No 6, (1993), 2315-2318	
		KILBOURN, et al., "In Vivo Measures of Dopaminergic Radioligands in the Rat Brain:	
		Rquilibrium Infusion Studies", Synapse 43, (2002), 188-194	
		KILBOURN, "Long-term reproducibility of in vivo measures of specific binding of	
		radioligands in rat brain", Nuclear Medicine and Biology 31, (2004), 591-595	
		KILBOURN, et al., "Mutant Mouse Strains as Models for In Vivo Radiotracer Evaluations:	
	1 .	[11C]Methoxytetrabenazine ([11C]MTBZ) in Tottering Mice", Nucl. Med. Biol. vol 22, No 5,	
		(1995), 565-567	
		KILBOURN, et al., "Pet Radioligands for Vesicular Neurotransmitter Transporters", Med.	

EXAMINER	/Craig Ricci/	DATE CONSIDERED	10/21/2009

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant is to place a check mark here if English language Translation is attached

PTO/SB/08A(04-07)

Modified form approved for use through 09/30/2007. OMB 651-0031

US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO	Complete if Known	
Substitute for form 1449AFTO	Application Number	10/597,803
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date	April 13, 2007
	First Named Inventor	Robert Tridgett
(Use as many sheets as necessary)	Group Art Unit	1614
	Examiner Name	Craig Ricci
Sheet 4 of 5	Attorney Docket No: 3	3063.002US1

OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т'	
	KILBOURN, et al., "Rapid and Differential Losses of In Vivo Dopamine Transporter (DAT) and Vesicular Monoamine Transporter (VMAT2) Radioligand Binding in MPTP-Treated Mice", Synapse 35, (2000), 250-255		
	KILBOURN, et al., "The vesicular monoamine transporter is not regulated by dopaminergic drug treatments", Eur. J. Pharmacol., (1995), 577-583		
	KILBOURN, "Time-Dependent Recovery of In Vivo Binding Sites after Drug Dosing: A Method of Radiotracer Evaluation", Nuclear Medicine and Biology Vol 24, (1997), 115-118		
	KOEPPE, et al., "Assessment of Extrastriatal Vesicular Monoamine Transporter Binding Site Density Using Stereoisomers of [11C]Dihydrotetrabenazine", <u>Journal of Cerebral Blood Flow and Metabolism 19</u> , (1999), 1376-1384		
	KOEPPE, et al., "Dual-[11C]Tracer Single-Acquisition Positron Emission Tomography Studies", Journal of Cerebral Blood Flow and Metabolism 21, (2001), 1480-1492		
	KOEPPE, et al., "Equilibrium Versus Compartmental Analysis for Assessment of the Vesicular Monoamine Transporter Using (+)-a_[11C]Dihydrotetrabenazine (DTBZ) and Positron Emission Tomography", <u>Journal of Cerebral Blood Flow and Metabolism 17</u> , (1997), 919-931		
	KOEPPE, et al., "Kinetic Evaluation of [11C]Dihydrotetrabenazine by Dynamic PET: Measurement of Vesicular Monoamine Transporter", <u>Journal of Cerebral Blood Flow and Metabolism 16</u> , (1995), 1288-1299		
	MEHVAR, et al., "Concentration-Effect Relationships of Tetrabenazine and Dihydrotetrabenazine in the Rat", <u>J. Pharm. Sci. 76 no. 6</u> , (1987), 461-465		
	MEHVAR, et al., "Pharmacokinetics of Tetrabenazine and its Major Metabolite in Man and Rat", <u>Drug Metab. Disp 15</u> , (1987), 250-255		
	ONDO, WILLIAM G, et al., "Tetrabenazine Treatment for Tardive Dyskinesia: Assessment by Randomized Videotape Protocol", <u>Am J Psychiatry 156:8</u> , (1999), 1279–1281		
	OSBOND, J M, "Chemical Constitution and Amoebicidal Activity. Part VI. a New Systhesis of 2-Keytones and 2-Alcohols derived from 3-Alkyl-1,3,4,6,7,11b-hexahydro-9,10-dimethoxy-2H-benzo[a]quinolizines", J. Chem. Soc., (1961), 4711-4718		
	PLETSCHER, et al., "Benzoquinolizine Derivatives: A New Class of Monamine Decreasing Drugs with Psychotropic Action", <u>Int. Rev. Neurobiol. 4</u> , (1962), 275-306		
	ROBERTS, et al., "The Pharmacokinetics of Tetrabenazine and its Hydroxy Metabolite in Patients Treated for Involuntary Movement Disorders", <u>European J. Clinical Pharmacology</u> 29, (1986), 703-708		
	RUBIRALTA, et al., "NMR Spectroscopy and X-Ray Crystallography of Benzo [a] Quinolizidines", Heterocycles 27, (1988), 1653-1664		
	SCHERMAN, et al., "Hydrophobicity of the Tetrabenazine-Binding Site of the Chromaffin Granule Monoamine Transporter", Molecular Pharmacology 33, (1988), 72-77		
	SCHWARTZ, et al., "Metabolic Studies of Tetrabenazine a Physhotropic Drug in Animals and Man", Biochemical Pharmacology Vol 15, (1956), 645-655		

EXAMINER	/Craig Ricci/	DATE CONSIDERED	10/21/2009

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant is to place a check mark here if English language Translation is attached

PTO/SB/08A(04-07)

Modified form approved for use through 09/30/2007. OMB 651-0031	
US Patent & Trademark Office; U.S. DEPARTMENT OF COMMERCE	
nder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.	

Substitute for form 1449A/PTO	Complete if Known	
Substitute for form 1449A/PTO	Application Number	10/597,803
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Filing Date	April 13, 2007
	First Named Inventor	Robert Tridgett
	Group Art Unit	1614
	Examiner Name	Craig Ricci
Sheet 5 of 5	Attorney Docket No: 3	3063.002US1

OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS		
Examiner initials*	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ'
	USKOKOVIC, et al., "The Nuclear Magnetic Resonance Spectra of the Angular Proton in Benzo [a]-and Indolo[a]quinolizidines", <u>Journal of the American Chemical Society 86 (16)</u> , (1964), 3364-67	
	ZUBIETA, et al., "High Vesicular Monoamine Transporter Binding in Asymptomatic Bipolar I Disorder: Sex Differences and Cognitive Correlates", <u>Am. J. Psychiatry 157:10</u> , (2000), 1619-1628	

EXAMINER	/Craig Ricci/	DATE CONSIDERED	10/21/2009

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant is to place a check mark here if English language Translation is attached